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EXAMINER STEPHEN WALSH ART UNIT PAPER NUMBER 1814 38

		79.7	
		DATE MAILED	:
EXAMINER INT	ERVIEW SUMMARY	RECORD	
All participants (applicant, applicant's representative, PTO personnel):		
11) LEONARD C. MITCHARD	(2)		
(2) STEPHEN WALSH	(4)		
Date of interview 5-6-92			
Type: Telephonic	nt 🔲 applicant's repre	sentative).	
Exhibit shown or demonstration conducted:	une brief description.		
Exhibit shown or demonstration conducted. Tes per No. 11	yes, brief description:		
Agreement	s in question. 🔏 was	not reached.	
Claims discussed: 33 and 35	75.16		
Hamiltonia de la companya (120 la contra de la contra del	i — Evan		
Identification of prior art discussed: Wasley et al	— ехащ	iner request	ted copy be
faxed because original copy is	missing fro	m file.	•
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Description of the general nature of what was agreed to if an agreeme			
insertion of human to ob	viate poten	tral issue of	contamination
by fetal calf serum constitue	a. La . Kaa	contemuna	them by
constituents; authorization +	for the au	endment as	attached.
(A fuller description, if necessary, and a copy of the amendments, attached. Also, where no copy of the amendments which would rend	if available, which the detection in the claims allowable is	examiner agreed would rer savailable, a summary ther	ider the claims allowable must eof must be attached.)
Unless the paragraphs below have been checked to indicate to the NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE	contrary, A FORMAL V	VRITTEN RESPONSE TO	THE LAST OFFICE ACTION
last Office action has already been filed, then applicant is given one n	nonth from this interview	v date to provide a statemen	it of the substance of the intervi
It is not necessary for applicant to provide a separate record o	f the substance of the in	erview.	
Since the examiner's interview summary above (including an requirements that may be present in the last Office action, a response requirements of the last Office action.	nd since the claims are n	ow allowable, this complete	ed form is considered to fulfill
		Store	la Wall
PTOL-413 (REV. 1-84)		S Cop Examiner's Signature	

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COAGULATION

EXPRESSION, PURIFICATION AND CHARACTERIZATION OF BIOLOGICALLY ACTIVE SUMM PACTOR IN STRINGSIZED BY RECOMBINANT MANUALIAN HOST CHILS. C.Sbannigg. .
L. Taniar , B.C. Freig. R. Freig, and R. Kariman .
Genetics Institute, Cambridge MA end Tufte-New England .
Nedical Couter, Besten MA.

Factor IX has been expressed to high levels within a resombinent heet soil and subsequently purified to homegoneity for obscatterination. Coding sequence for full-length factor IX was inserted into a mamalism coli expression vector and transfested into Chipere hearter every colle. The integrated DNA was amplified to high copy number by selection for increasingly higher expression levels of a merker pose, dibydrofolate reduction, contained within the plasmid. Thus for, cloud call lines secreting over 100 pg/ml of Factor IZ antigen and up to 1.5 pg/ml of native Factor IX antigen have been obtained. Expression of biologically active factor IX is dependent on the presence of vitamin E in the media. The y-carbonylated Pactor IX was isolated from cell culture field (21 pg/ml Factor IX antigens 0.5 ps/ml native Factor IX satiges) by imusesfficity chronategraphy soing antibodies conformation-specific for the metal-etabilized conformer of Factor II. This conformation is dependent upon metal jame and y-corbonyglutamic soid. Parified recombinant Paster II migrated as a single band on SDS PAGE with an electropheratic mobility equivalent to place-decives Fauter IX. The parified actorial demonstrated Factor IX congrigat activity, in Factor IX-deficient places, with a apocific activity of 40 U/mg. Animo sold acalysis of the alkaline hydrolysate of recembigant Factor IX demonstrated the presence of Tearboxyglutenie soid. Imanoconeys of recombinant Fester IZ with anti-Pactor IX entibodies and with conformation-specific anti-factor IX:Ca(II) antibodice meanance equivalent Factor IX levels. Carrent efforts are directed at improving the efficiency of yearboxylation and increasing the percentage of Factor IX that is biologically active. Inclation of recombinant Pactor II and direct demonstration of the presence of y-carbonygintamic soid and Pactor IX congulant nativity in the parified recombinant Paster IX indicate the potential for preparation of Factor IX by generalizent DKA technology for treatment of hamephilin B.

1257 INTERACTIONS BETWEEN CANCER CELL TISSUE FACTOR, PLATELETS & THE PLASMA COAGULATION SYSTEM: POTENTIAL FACTORS FOR METAST-

ASIS. J.M. Silberberg*, D. Wilkie*, S. Zucker, VA Medical
Center Northport, NY and SUNY 9 Stony Brook.
The activation of platelets and the plasma coagulation The activation of platelets and the plasma coagulation system has been proposed to play an important role in cancer metastasis. We have evaluated the interaction of these factors in four highly metastatic human cancer cell lines derived by xenogenic transplantation (pancreatic ductal lines RWP1 and 2, small cell lung cancer lines H-69 & 128). The H-69 line showed minimal procoagulant activity & no aggregation of heparinized platelet rich plasma (PRP). The other three lines substantially shortened recalcification other three lines substantially shortened recalcification other three lines substantially shortened recalcification times in normal plasma and XII deficient plasma but not in VII and X deficient plasmas. All three lines released this activity into the supernatant where it could be pelleted at 100,000g for 2 hours. All three of these lines aggregated heparinized(4u/m))PRP with release of ATP after a lag period which varied with the concentration of tumor material used. Whenever concentrations of 4Du/ml in PRP completely inhibitwhich varied with the concentration of taugh mater in Section 1 taugh mater in the temperature of taugh in PRP completely inhibited platelet aggregation. To localize processulant activity in cells, RWP and 2 lines were both disrupted by nitrogen cavitation with isolation of cell organelles by sucrose cavitation with isolation of cell organelles by sucrose density gradient centrifugation. Results: Aggregation and shortening of recalcification times occurred primarily in the plasma membrane enriched fractions. Tumor cytosol minithe plasma membrane enriched fractions. Tumor cytosol minithe plasma membrane enriched fractions times but had no effect on mally shortened recalcification times but had no effect on aggragations. Inhibitors of serine protesses (DFP,PMSF) and EDTA did not affect either recalcification times or aggregation. Monoclonal antibodies to human brain tissue fector

AUTOACTIVATION OF HUMAN FACTOR XIICHAG OF HEPARIN AND LOW HOLECULAR WEIGHT DE Michael Silverpero and Susan Yest Dish Allergy, Rheumatology and Clinical Imm Sciences Center, SUNY, Stony Brook, N.

Factor XII undergous autoactivation negatively charged surfaces. Particula nigh molecular weight dextran sulphate activators but the effect of molecular reaction has not previously been eath sulphate of 5,000 MJ, containing 40% was able to support the autoactivation an apparent rate constant 1/5 that of sulphate of similar sulphate content. sulphate was treated with o-phenanthe Incubated with Factor XII in the pres efficiency of autoactivation was unch formation of high notecular weight co metal ions is not required for active weight compounds. The 5,000 MM destri analysed by gel filtration on Sephade fractions tested for their ability to activation of Factor XII; the apparel activation was dependent upon elutro over a 6-fold range with decreasing t different Heparin preparations were USP Heparin, the others were of nom: 13-15,000. All supported the autoact Chromatography on G-75 yielded diffe all of the plots of apparent rate co volume were superimposable and shows 8-told decline across the peak. The both classes of sulphated polysacchi factor XII can interact with even is polyanions to generate active enzyme the activation is dependent upon the activator and declines markedly at I approximately 12,000 MJ.

KINETIC STUDIES USING HONOCLONAL AND AN EAZYME-SUBSTRATE BINDING SITE FOR HEAVY CHAIN OF FACTOR XIa. D. Sinhi R.W. Babilon, and P.N. Heleh, Thron Temple University School of Hedicin.

The heavy chain of human coagulain addition to the active-site cont. essential for calcium dependent act substrate factor IX (FIX). In orde the heavy chain of FXIs possesses t while its catalytic site resides on studied the kinetics of the activat two monocional antibodias, one (574 light chain of FXIs and the other (chain. Analysis of the kinetic dat plets of 1/V vs. 1/8 at various cos light chain specific antibody 374 s in the value of Vmax as the concent was incressed whereas the value of an example of classical noncompatit the binding of 5P4 to the light chi torts the enzyme sufficiently to pr tioning of the catalytic center, th nonproductive. In contrast, in the concentrations of the heavy chain the Vmax remained unchanged, where crease in the value of the apparen was observed: an example of class tion. Thus, the binding of the an chain domain of FXIs causes a chan of the enzyme that distorts the su the substrate fro

đ¢ CI, Mic tio đt ; Hema detec Ehowe 11.0 , norma for fre MOFPA1 0.13), for ade restrict MIC DNA ment in s agment KR Hap